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Pat. No. 5577426, *

5,577,426

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Nov. 26, 1996

Magnetic bit holder and hand tool incorporating same

INVENTOR: Eggert, Daniel M., Kenosha, Wisconsin
Mikic, Frank, Kenosha, Wisconsin**CORE TERMS:** magnet, bore, bit, holder, retaining, retainer, encapsulation, permanent magnet, socket, hand tool...View: KWIC | [Full](#)[1 of 1](#)[Text Only](#) | [Download](#) | [Fax](#) | [Email](#)[FOCUS™ - Narrow Results](#) | [Save As ECLIPSE](#) | [More Like This](#) | [More Like Selected Text](#)Source: [All Sources](#) : / ... / : Utility, Design and Plant PatentsTerms: patno is 5577426 ([Edit Search](#))

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CITING REFERENCES (1 citing reference)**Administrative Agency Decisions****Correction certificate issued at:**

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1/2 WPIL - (C) Derwent- image

AN - 1997-144488 [13]

XR - 1997-019953

XP - N1997-119595

TI - Magnetic bit holder for receiving interchangeable bits, such as screwdriver bits etc - has neodymium permanent magnet freely received in bore and retained against inner end surface by thin circular retainer interference-fitted in bore

DC - P62

PA - (SNAP-) SNAP-ON TECHNOLOGIES INC

IN - EGGERT DM; MIKIC F

NP - 1

NC - 1

PN - US5603248 A 19970218 DW1997-13 B25B-013/02 Sp *
AP: 1994US-0335992 19941108: 1996US-0593396 19960129

PR - 1994US-0335992 19941108: 1996US-0593396 19960129

IC - B25B-013/02

AB - US5603248 A

The tool has an elongated shank with a handle at one end and a bit holder at the other end, the bit holder including a cylindrical body having a distal end surface and an axis, the body having an axial bore formed in the end surface of non-circular transverse cross section and terminating at an inner end surface. A neodymium permanent magnet is freely received in the bore and retained against the inner end surface by a thin circular retainer, formed of metal or plastic, which is interference-fitted in the bore.

- A shock-absorbing cushion may be disposed between the magnet and the inner end surface of the bore. A bit formed of magnetizable material is mateably received in a socket portion of the bore and retained in place by the magnet. The portion of the bore receiving the magnet may have a different cross section from the socket portion. The magnet may be disposed in an encapsulation which interference fits in the bore.
- ADVANTAGE - Obviates the drilling of a separate hole for retention of a permanent magnet. Can effectively retain a neodymium magnet in place, minimising the risk of fracture and assuring adequate retention even in the event of fracture. (Dwg.2/9)

UP - 1997-13

1/1 LGST - (C) LEGSTAT

PN - US 5603248 [US5603248]

AP - US 593396/96 19960129 [1996US-0593396]

DT - US-P

ACT - 19960129 US/AE-A

APPLICATION DATA (PATENT)

{US 593396/96 19960129 [1996US-0593396]}

- 19970218 US/A

PATENT

- 19980811 US/RP

REISSUE APPLICATION FILED

980702

UP - 1998-38

1/1 CRXX - (C) CLAIMS/RRX

PN - 5,603,248 A 19970218 [US5603248]

PA - Snap-On Technologies Inc

ACT - 19980702 REISSUE REQUESTED
Issue Date of O.G.: 19980811
Reissue Request Number: 09/109352
Examination Group responsible for Reissue process: 3723

1/1 PAST - (C) PAST
AN - 199832-000994
PN - 5603248 A [US5603248]
OG - 1998-08-11
ACT - REISSUE APPLICATION FILED

Search statement 2

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1/39/1

13350088

Basic Patent (No,Kind,Date): US 5577426 A 961126

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
US 5577426	A	961126	US 335992	A	941108 (BASIC)
US 5603248	A	970218	US 593396	A	960129

Priority Data (No,Kind,Date):

US 335992 A 941108
 US 593396 A 960129
 US 335992 A3 941108

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5577426 A 961126

MAGNETIC BIT HOLDER AND HAND TOOL INCORPORATING SAME Magnetic bit
 holder and hand tool incorporating same (English)

Patent Assignee: SNAP ON TECH INC (US)

Author (Inventor): EGGERT DANIEL M (US); MIKIC FRANK (US)

Priority (No,Kind,Date): US 335992 A 941108

Applic (No,Kind,Date): US 335992 A 941108

National Class: * 081439000; 081125000

IPC: * B25B-023/00

Derwent WPI Acc No: * G 97-019953; G 97-019953

Language of Document: English

Patent (No,Kind,Date): US 5603248 A 970218

MAGNETIC BIT HOLDER AND HAND TOOL INCORPORATED SAME (English)

Patent Assignee: SNAP ON TECH INC (US)

Author (Inventor): EGGERT DANIEL M (US); MIKIC FRANK (US)

Priority (No,Kind,Date): US 593396 A 960129; US 335992 A3 941108

Applic (No,Kind,Date): US 593396 A 960129

National Class: * 081438000; 081125000; 081013000

IPC: * B25B-013/02

Derwent WPI Acc No: * G 97-019953; G 97-144488; G 97-144488

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5577426	P	941108	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 335992 A	941108
US 5577426	P	941108	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			SNAP-ON INCORPORATED 2801 - 80TH STREET	
			KENOSHA, WISCONSIN 53141-1410 ; EGGERT,	
			DANIEL M. : 19941104; MIKIC, FRANK : 19941105	
US 5577426	P	960408	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			SNAP-ON TECHNOLOGIES, INC. ONE SUN PARKWAY	
			CRYSTAL LAKE, ILLINOIS 60014 ; SNAP-ON TOOLS	
			WORLDWIDE, INC. : 19951229	
US 5577426	P	961126	US A	PATENT
US 5577426	P	970318	US CC	CERTIFICATE OF CORRECTION
US 5577426	P	980811	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			980702	
US 5603248	P	941108	US AA	PRIORITY
			US 335992 A3	941108
US 5603248	P	960129	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 593396 A	960129
US 5603248	P	970218	US A	PATENT
US 5603248	P	980811	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	

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